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	Application No.	Applicant(s)	m
Notice of Allowability	10/808,647	CHANG ET AL.	
	Examiner	Art Unit	
	Toniae M. Thomas	2822	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in t 35) or other appropriate commun RIGHTS. This application is su	this application. If not included in the call in the c	j ourse. THIS
1. \boxtimes This communication is responsive to <u>the papers filed on</u>	25 March 2004.		
2. The allowed claim(s) is/are <u>1-20</u> .			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		(f).	
Certified copies of the priority documents had	ave been received in Application	No	
Copies of the certified copies of the priority of	documents have been received i	in this national stage application	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sub-	NMENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which g	ives reason(s) why the oath or o	declaration is deficient.	TIOL OI
5. CORRECTED DRAWINGS (as "replacement sheets") m	oust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Review ((PTO-948) attached	
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date	<u>_</u>		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or in	n the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on the n the header according to 37 CFR	drawings in the front (not the b	eack) of
 DEPOSIT OF and/or INFORMATION about the department department regarding REQUIREMEN 	POSIT OF BIOLOGICAL MATER TFOR THE DEPOSIT OF BIOL	RIAL must be submitted. No OGICAL MATERIAL.	ote the
Attachment(s) 1. X Notice of References Cited (PTO-892)	C D Notice of the	15 4 4 4 11 11 15 15	
 Bootice of References Cited (P10-892) Dotice of Draftperson's Patent Drawing Review (PT0-948) 		rmal Patent Application (PTO-	152)
•	Paper No./M	ail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 		mendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	t 8. ⊠ Examiner's St	tatement of Reasons for Allow	ance
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		Mary Wilczew Primary Exami	

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Application/Control Number: 10/808,647

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Reasons for Allowance

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The following is an examiner's statement of reasons for allowance: the 1. prior art of record does not anticipate or render obvious a method for forming a micro pipe substantially as claimed. It is known to form micro pipes using photoresist layers having arcuate configurations as evidenced, for example, by Matzke et al. (US 6,096,656). It is also known to form photoresist layers having arcuate configurations by subjecting the photoresist layers to ionizing radiation, as evidenced by Harchanko et al. (US 2005/0074616 A1). The photoresist layers used in the prior art are subjected to a reflow process to form photoresist layers having arcuate shapes. However, in the claimed invention, a photoresist layer is subjected to a heating and irradiation step to form a photoresist layer having an arcuate shape. The heating and irradiation step causes outgassing of nitrogen gas from the photoresist layer into the junction between the photoresist layer and the underlying substrate to push the photoresist layer upwardly into an arcuate shape. The prior art of record does not anticipate, teach or suggest a method for forming a micro pipe substantially as claimed, wherein the method comprises imparting an arcuate configuration to a photoresist layer by subjecting the photoresist layer to ionizing radiation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

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preferably accompany the issue fee. Such submissions should be clearly

labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toniae M. Thomas whose telephone number is (571) 272-1846. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on (571) 272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TMT

20 March 2006

Mary Wilczewski Primary Examiner